(19) World Intellectual Property Organization

International Bureau



(43) International Publication Date 3 February 2005 (03.02.2005)

PCT

(10) International Publication Number WO 2005/010071 A1

(51) International Patent Classification⁷: C07C 13/00, 15/00, 15/16, 5/367, 15/20

C08G 61/00,

(21) International Application Number:

PCT/US2003/041533

(22) International Filing Date:

30 December 2003 (30.12.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/436,927 30 D

30 December 2002 (30.12.2002)

(71) Applicant (for all designated States except US): HONEY-WELL INTERNATIONAL INC [US/US]; PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US).

(72) Inventors; and

(75) Inventors/Applicants (for US only): LI, Bo [CN/US]; Honeywell International INC., PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US). LAU, Krelsler [US/US]; Hineywell International INC., PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US). APEN, Paul [US/US]; Honeywell International INC., PO Box 2245, 101 Columbia Road, Morristown, NJ 07962 (US). (74) Agents: THOMPSON, Sandra et al.; Bingham Mc-Cutchen LLP, Three Embarcadero Center, San Francisco, CA 94111-4067 (US).

(81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

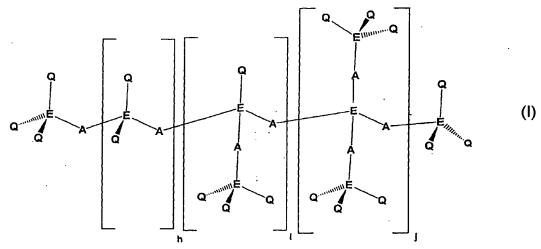
(84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

with international search report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: ORGANIC COMPOSITIONS



(57) Abstract: Compositions and methods of forming and using those compositions are provided herein where the composition comprises at least one oligomer or polymer of Formula I wherein E is a cage compound; each Q is the same or different and selected from aryl, branched aryl, and substituted aryl wherein the substituents include hydrogen, halogen, alkyl, aryl, substituted aryl, heteroaryl, aryl ether, alkenyl, alkynyl, alkoxyl, hydroxyalkyl, hydroxyaryl, hydroxyalkenyl, hydroxyalkynyl, hydroxyl, or carboxyl; A is substituted or unsubstituted aryl with substituted or unsubstituted arylalkynyl group (substituents include hydrogen, halogen, alkyl, phenyl or substituted aryl; and aryl includes phenyl, biphenyl, naphthyl, terphenyl, anthracenyl, polyphenylene, polyphenylene ether, or substituted aryl); h is from 0 to 10; i is from 0 to 10; j is from 0 to 10; and w is 0 or 1.

O 2005/010071 A1

INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/41533

A. CLASSIFICATION OF SUBJECT MATTER IPC(7) : C08G 61/00; C07C 13/00, 15/16, 5/367, 15/20					
US CL: 528/396, 397; 585/430, 431					
According to International Patent Classification (IPC) or to both national classification and IPC B. FIELDS SEARCHED					
Minimum documentation searched (classification system followed by classification symbols) U.S.: 528/396, 397; 585/430, 431					
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched None					
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) East Text; STN Text.					
C. DOCUMENTS CONSIDERED TO BE RELEVANT					
Category *	Citation of document, with indication, where appropriate, of the relevant passages			Relevant to claim No.	
A	US 5,053,568 A (CHEN) 01 October 1991(01.10.1991), see entire Patent. 1-30			1-30	
A	US 5,053,434 A (CHAPMAN) 01 October 1991 (01.06.1991), see entire Patent.			1-30	
A	US 5,017,734 A (BAUM et al.) 21 May 1991 (21.05.1991), see entire Patent.			1-30	
,					
Further	documents are listed in the continuation of Box C.		See patent family annex.		
"A" documen	pecial categories of cited documents: t defining the general state of the art which is not considered to be alar relevance	«I»	later document published after the inte date and not in conflict with the applic principle or theory underlying the inve	cation but cited to understand the	
"E" earlier ap	plication or patent published on or after the international filing date	*X*	document of particular relevance; the considered novel or cannot be conside when the document is taken alone	claimed invention cannot be red to involve an inventive step	
establish	"L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)		document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination		
"O" documen	t referring to an oral disclosure, use, exhibition or other means		being obvious to a person skilled in th		
"P" document published prior to the international filing date but later than the priority date claimed			"&" document member of the same patent family		
Date of the actual completion of the international search			Date of mailing of the international search report		
22 day 2001 (12:07:2004)			d offices		
Mail Stop PCT, Ann: ISA/US Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450			Authorized officer Elvis O. Price Telephone No. 703 308-1235		
Facsimile No. (703) 305-3230					

Form PCT/ISA/210 (second sheet) (July 1998)